Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A game system which executes a computer program to generate an electronic image to provide more realistic view on a display screen, comprising:

means which transforms a depth value of each pixel of an original image into a second depth value formed of lower bits I to J which are positioned lower than the most significant bit of the depth value;

means which sets an alpha value of each pixel to a value corresponding to the second depth value; and

means which generates the electronic image based on the set alpha value, wherein the bits I to J are an intermediate set of bits below the uppermost bit and above the lowermost bit.

- (Original) The game system as defined in claim 1,
 wherein the original image is blended with a defocused image of the original
 image based on the alpha value set for each pixel.
- 3. (Original) The game system as defined in claim 2,
 wherein the defocused image of the original image is generated by setting the
 original image as a texture and shifting texture coordinates of a virtual object when the
 texture is mapped onto the virtual object by texel interpolation method.
- 4. (Original) The game system as defined in claim 1,
 wherein the second depth value is clamped into a given value depending on a
 bit value other than the bits I to J in the depth value.
 - 5. (Original) The game system as defined in claim 1,

wherein the depth value is set as an index number in a lookup table for index color texture-mapping; and

wherein the depth value is transformed into the second depth value by performing index color texture-mapping on a virtual object by using the lookup table.

6. (Original) The game system as defined in claim 1, wherein:

bits M to N in the depth value are set as an index number in a first lookup table for index color texture-mapping;

the depth value is transformed into a third depth value by performing index color texture-mapping on a virtual object by using the first lookup table;

bits K to L (where $K \ge I \ge L > M \ge J \ge N$) in the depth value are set as an index number in a second lookup table for index color texture-mapping;

the depth value is transformed into a fourth depth value by performing index color texture-mapping on a virtual object by using the second lookup table; and

the third and fourth depth values are used to determine the second depth value.

7. (Previously Presented) A game system which executes a computer program to generate an electronic image to provide more realistic view on a display screen, comprising:

means which sets bits M to N in given image information as an index number in a first lookup table for index color texture-mapping, and uses the first lookup table to perform index color texture-mapping on a virtual object to transform the image information into third image information;

means which sets bits K to L in the image information as an index number in a second lookup table for index color texture-mapping, and uses the second lookup table to perform index color texture-mapping on a virtual object to transform the image information into fourth image information; and

means which determines second image information formed of the bits I to J $(\text{where } K \geq I \geq L \geq M \geq J \geq N) \text{ in the image information based on the third and fourth image information.}$

- 8. (Previously Presented) The game system as defined in claim 5, wherein the virtual object is a polygon having a size equal to a size of the display screen.
- 9. (Previously Presented) The game system as defined in claim 7, wherein the virtual object is a polygon having a size equal to a size of the display screen.
- 10. (Previously Presented) The game system as defined in claim 5, wherein the virtual object is a polygon having a size equal to a size of a block obtained by dividing the display screen into blocks.
- 11. (Previously Presented) The game system as defined in claim 7,
 wherein the virtual object is a polygon having a size equal to a size of a block
 obtained by dividing the display screen into blocks.
- 12. (Currently Amended) A computer-usable program embodied on an information storage medium or in a computer-executable signal capable of being transmitted by a transmitter and received by a receiver to generate an electronic image on a display screen, comprising a processing routine for a computer to realize:

means which transforms a depth value of each pixel of an original image into a second depth value formed of lower bits I to J which are positioned lower than the most significant bit of the depth value;

means which sets an alpha value of each pixel to a value corresponding to the second depth value; and

means which generates an image based on the set alpha value, wherein the bits

I to J are an intermediate set of bits below the uppermost bit and above the lowermost bit.

- 13. (Original) The program as defined in claim 12,
 wherein the original image is blended with a defocused image of the original
 image based on the alpha value set for each pixel.
- 14. (Original) The program as defined in claim 13,

 wherein the defocused image of the original image is generated by setting the original image as a texture and shifting texture coordinates of a virtual object when the texture is mapped onto the virtual object by texel interpolation method.
- 15. (Original) The program as defined in claim 12,
 wherein the second depth value is clamped into a given value depending on a
 bit value other than the bits I to J in the depth value.
- 16. (Original) The program as defined in claim 12,
 wherein the depth value is set as an index number in a lookup table for index
 color texture-mapping; and

wherein the depth value is transformed into the second depth value by performing index color texture-mapping on a virtual object by using the lookup table.

17. (Original) The program as defined in claim 12, wherein:

bits M to N in the depth value are set as an index number in a first lookup table for index color texture-mapping;

the depth value is transformed into a third depth value by performing index color texture-mapping on a virtual object by using the first lookup table; bits K to L (where $K \ge I \ge L > M \ge J \ge N$) in the depth value are set as an index number in a second lookup table for index color texture-mapping;

the depth value is transformed into a fourth depth value by performing index color texture-mapping on a virtual object by using the second lookup table; and the third and fourth depth values are used to determine the second depth value.

18. (Previously Presented) A computer-usable program embodied on an information storage medium or in a computer-executable signal capable of being transmitted by a transmitter and received by a receiver to generate an electronic image on a display screen, comprising a processing routine for a computer to realize:

means which sets bits M to N in given image information as an index number in a first lookup table for index color texture-mapping, and uses the first lookup table to perform index color texture-mapping on a virtual object to transform the image information into third image information;

means which sets bits K to L in the image information as an index number in a second lookup table for index color texture-mapping, and uses the second lookup table to perform index color texture-mapping on a virtual object to transform the image information into fourth image information; and

means which determines second image information formed of the bits I to J (where $K \ge I \ge L > M \ge J \ge N$) in the image information based on the third and fourth image information.

- 19. (Original) The program as defined in claim 16,
 wherein the virtual object is a polygon having a size equal to a size of a display screen.
- 20. (Original) The program as defined in claim 18, wherein the virtual object is a polygon having a size equal to a size of a display screen.

21. (Original) The game system as defined in claim 16,
wherein the virtual object is a polygon having a size equal to a size of a block
obtained by dividing a display screen into blocks.

- 22. (Original) The program as defined in claim 18,

 wherein the virtual object is a polygon having a size equal to a size of a block
 obtained by dividing a display screen into blocks.
- 23. (Currently Amended) A method of generating an electronic image to provide more realistic view on a display screen, comprising a step of:

transforming a depth value of each pixel of an original image into a second depth value formed of lower bits I to J which are positioned lower than the most significant bit of the depth value;

setting an alpha value of each pixel to a value corresponding to the second depth value; and

generating the electronic image based on the set alpha value, wherein the bits I to J are an intermediate set of bits below the uppermost bit and above the lowermost bit.

- 24. (Original) The method as defined in claim 23, wherein the original image is blended with a defocused image of the original image based on the alpha value set for each pixel.
- 25. (Original) The method as defined in claim 24,
 wherein the defocused image of the original image is generated by setting the
 original image as a texture and shifting texture coordinates of a virtual object when the
 texture is mapped onto the virtual object by texel interpolation method.
- 26. (Original) The method as defined in claim 23,
 wherein the second depth value is clamped into a given value depending on a
 bit value other than the bits I to J in the depth value.

27. (Original) The method as defined in claim 23,

wherein the depth value is set as an index number in a lookup table for index color texture-mapping; and

wherein the depth value is transformed into the second depth value by performing index color texture-mapping on a virtual object by using the lookup table.

28. (Original) The method as defined in claim 23, wherein:

bits M to N in the depth value are set as an index number in a first lookup table for index color texture-mapping;

the depth value is transformed into a third depth value by performing index color texture-mapping on a virtual object by using the first lookup table;

bits K to L (where $K \ge I \ge L > M \ge J \ge N$) in the depth value are set as an index number in a second lookup table for index color texture-mapping;

the depth value is transformed into a fourth depth value by performing index color texture-mapping on a virtual object by using the second lookup table; and

the third and fourth depth values are used to determine the second depth value.

29. (Previously Presented) A method of generating an electronic image to provide more realistic view on a display screen, comprising a step of:

setting bits M to N in given image information as an index number in a first lookup table for index color texture-mapping;

using the first lookup table to perform index color texture-mapping on a virtual object to transform the image information into third image information;

setting bits K to L in the image information as an index number in a second lookup table for index color texture-mapping;

using the second lookup table to perform index color texture-mapping on a virtual object to transform the image information into fourth image information; and determining second image information formed of the bits I to J (where $K \ge I$ $\ge L > M \ge J \ge N$) in the image information based on the third and fourth image information.

- 30. (Previously Presented) The method as defined in claim 27, wherein the virtual object is a polygon having a size equal to a size of the display screen.
- 31. (Previously Presented) The method as defined in claim 29, wherein the virtual object is a polygon having a size equal to a size of the display screen.
- 32. (Previously Presented) The method as defined in claim 27,
 wherein the virtual object is a polygon having a size equal to a size of a block
 obtained by dividing the display screen into blocks.
- 33. (Previously Presented) The method as defined in claim 29, wherein the virtual object is a polygon having a size equal to a size of a block obtained by dividing the display screen into blocks.